

HDMI Switch

User's Manual

ABOUT THIS MANUAL

This manual is designed for use with the HDMI switch. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

SAFETY INSTRUCTIONS

Always read the safety instructions carefully:

- Keep this User's Manual for future reference
- Keep this equipment away from humidity
- If any of the following situation arises, get the equipment checked by a service technician:
 - The equipment has been exposed to moisture.
 - The equipment has been dropped and damaged.
 - The equipment has obvious sign of breakage.
 - The equipment has not been working well or you cannot get it to work according to the User's Manual.

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Table of Contents

1. Introduction	3
Features.....	3
Package Contents.....	4
Exterior Overview	4
Front Panel	4
Rear Panel.....	4
2. Connections and Usage	5
3. Specifications.....	8
4. Regulatory Compliance	10
FCC Conditions	10
CE.....	10
WEEE Information	10

1. Introduction

This HDMI Switch allows up to three HDMI sources from any kind of audio/video device, such as DVD player, DTV set-top box, computer or game station to share a single high definition display.

Its HDMI 1.3 compliance offers higher data rate, extensive single-link bandwidth, deeper color bits and more HD audio formats. Furthermore, these benefits also offer users the capability of meeting the demands of future HDMI devices.

The device is perfect for home theater system with multiple HDMI devices as well as for commercial showcase. Need no more HD displays now, simply connect the sources and display all together to the switch, power on all the devices and then you can select which source you want to view on the display by pushing the buttons or using the provided IR remote controller.

What is HDMI?

HDMI (High-Definition Multimedia Interface) is the first industry-supported, uncompressed, all-digital audio/video interface. The new HDMI digital interconnect provides superior, uncompressed digital video and audio quality along with a simple, user-friendly connector that replaces the maze of cabling behind the entertainment center.

Features

- HDMI 1.3 compliance, offering higher data rate, single-link bandwidth, color bit depth and more HD audio formats
- Simultaneous connection of up to 3 HDMI sources to one HDMI-equipped display
- Eliminates the cable clutter
- Easy to switch between HDMI sources via front panel buttons or remote controller
- Low cost solution for home theater integration
- Supports HDTV resolutions of up to 1080p, maintaining beautiful and sharp video

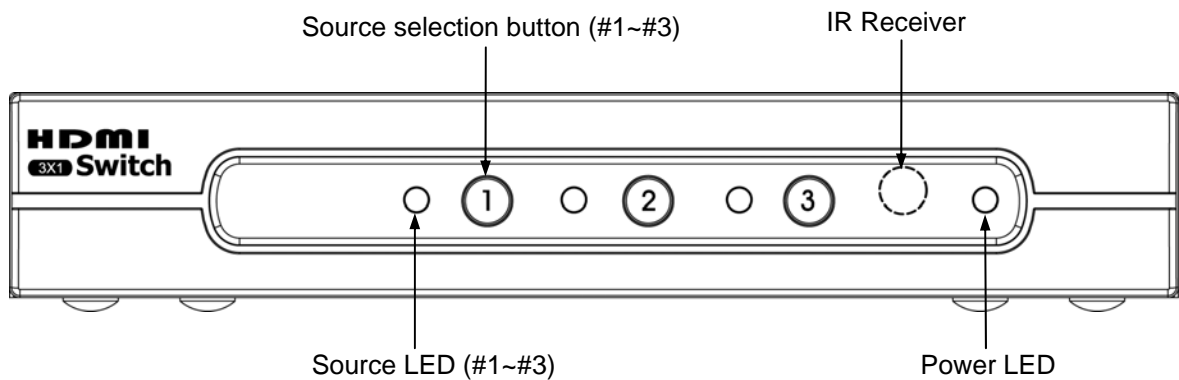
- With build-in input signal equalizer and output preamplifier, HDMI cable can run up to 20 meters (from original source to display) even at deep color resolutions
- Supports DDWG (Digital Display Working Group) standard for HDMI compliant monitors
- Supports DDC (Display Data Channel), CEC (Consumer Electronics Control) and HPD (Hot Plug Detect)

Package Contents

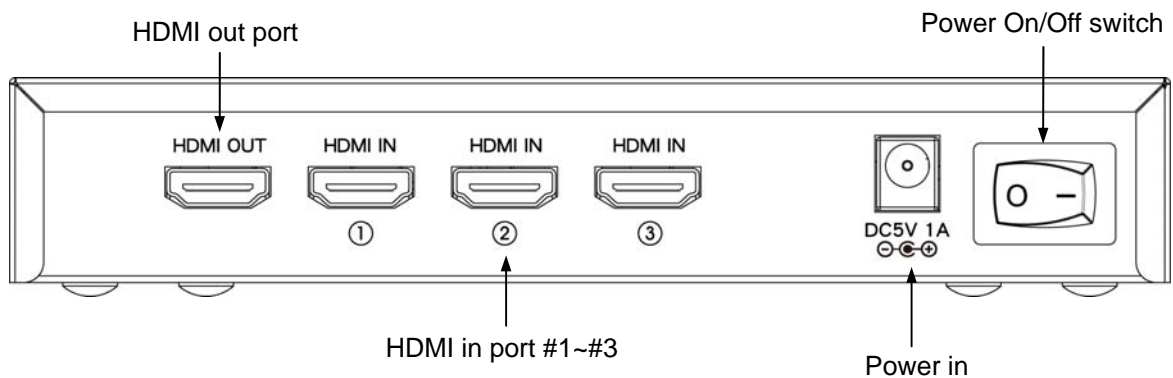
- HDMI Switch x1
- Remote Controller x1
- Power Supply x1
- User's Manual x1

Exterior Overview

Front Panel



Rear Panel



2. Connections and Usage

1. Connect the provided power supply to the power-in port (DC 5V) on the HDMI switch and a power outlet on the wall (AC 100-240V).
2. Connect a HDMI cable from the **HDMI OUT** port to a HDMI-equipped display. (Be sure the display is powered off when you make the connection.)
3. Connect a HDMI cable to the **HDMI IN** port on the switch and the other end to the HDMI sources, such as DVD player. Repeat this step to connect other HDMI sources, if any.

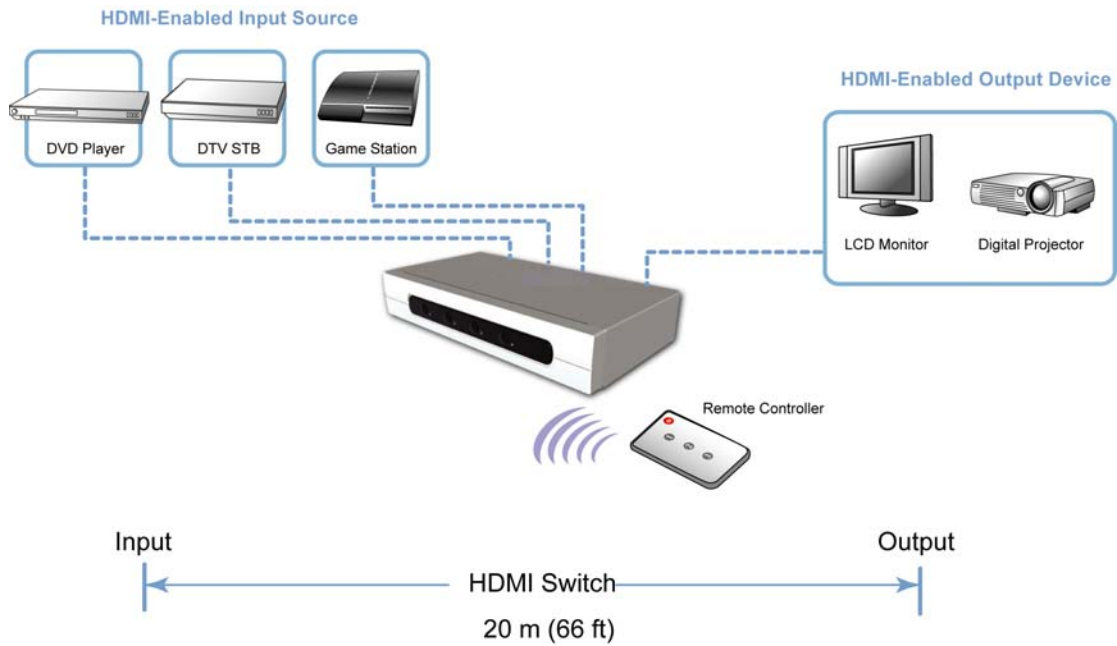
Notice on Cable Length: The HDMI switch supports cable length of up to 20 meters for input and output respectively. However, it's suggested that you use HDMI cable that doesn't exceed 15 meters and keep the total length from the input source to the display within 20 meters. Signal noises can be minimized by keeping the cable length within this range.

Notice on Connecting to DVI-D, DVI-I Source: If you are going to connect a computer with DVI interface to the HDMI switch, a suitable DVI to HDMI cable is needed to make the connection. Resolutions of up to 1920 x 1080 are supported when used with computer. Note that comparing with HDMI specification that combines both video and audio into a single digital interface, DVI is a "video only" interface, so no audio signals will be switched by the HDMI switch when using DVI sources.

4. Once the connection is done, press the power switch to "I" to power on the switch and power on other devices as well.

Once the sources, the switch and the display are all connected and powered on, you simply select which source you want to view by pressing the corresponding buttons on the front panel or using the remote controller.

The switch supports hot-plug detection; no need to turn off the switch while adding or removing the HDMI devices.



Notice on Using the Switch

Powering On/Off

The power switch on the HDMI switch is used to turn on/off the main power of the switch. Switching to “I” turns on the switch while “O” turns it off. Please turn off the main power if the HDMI switch will not be used for a long period of time.

To use the provided remote controller to turn on/off the switch, the main power must be switched on.

When using the power button on the remote controller to turn off/on the HDMI switch, the switch will remember the last selected input source and stay on that one.

On the other hand, if using the main power switch on the device to turn off/on the switch, it always stays at the first input device. If the first one is not powered on, you need to manually select the input source you want to use.

Remote Controller

When using the Infra-Red (IR) remote controller, you should point it towards the IR receiver on the front panel of the HDMI switch. It may not function properly if it is operated out of range or angle.

Switching Between the Input Sources

Users might experience a slight delay to the video display upon switching the input sources. This occurs because the input and output devices need time to negotiate with each other. The delay time varies according to each brand of the devices you are connecting.

HDCP Compliance

This switch supports HDCP (High-Bandwidth Digital Content Protection), a standard used to protect copyrighted digital content by encrypting the video signal between the source device and the display. The standard is to be implemented in the new generation HD DVD or Blu-ray movies or titles. To ensure a successful display of HDCP-compliant video, it's essential that the source, the display and the device in between all support HDCP. If you find the high definition digital content relegated to "sparkle" or lower resolution (480p), verify if your source device and display is HDCP-compliant.

Display Resolution

The switch supports a resolution of up to 1080p. However, the maximum supported resolution will depend on the capacity of your input source and display.

3. Specifications

Items	Descriptions
Input	3 HDMI inputs (HDMI 19 pin A-Type connector)
Output	1 HDMI output (HDMI 19 pin A-Type connector)
Supported Resolutions	480i, 480p, 720i, 720p, 1080i, 1080p at 60Hz, 12-bit 720p/1080i at 120Hz, 12-bit
LED	1 power LED: Red, solid for power on indication 3 source LEDs: Green, solid for source selection indication
Buttons and Controls	Switch body: 1 Power switch, 3 Input switch buttons Remote controller: 1 button for power on/off, 3 buttons for selecting input device
Vertical frequency range	60 Hz
Data Rate	Up to 2.25Gbps
Compliance	DVI 1.0, HDCP 1.1 and HDMI 1.3 compliant receiver and transmitter
Single-link range	Max. 1080p / 1920 x 1080
Remote Control	IR
Supported Cable Length	Total length from original source to display: 20 meters (66 feet)
Controls Support	Supports DDC (Display Data Channel), CEC (Consumer Electronics Control) and HPD (Hot Plug Detect)
Power Supply	Input: AC 100-240V, 50/60Hz Output: DC 5V / 1A
Dimension	90 (W) X 170 (L) X 30(H) mm
Weight	300g

Material	Metal (SECC)
Environment Characteristics	Temperature: Operating: 10~40°C, Storage: -10~80°C. Humidity(Non-Condensing): Operating: < 90%, Storage: < 95%
Certification	FCC, CE, HDMI ATC
RoHS	RoHS compliant

* Specification is subject to change without further notice.

4. Regulatory Compliance

FCC Conditions

This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received. Including interference that may cause undesired operation.

CE

This equipment is in compliance with the requirements of the following regulations:
EN 55 022: CLASS B

WEEE Information

For EU (European Union) member users:

According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

